What is claimed is:

1. A method for encoding information, for transmission of the encoded information to a device that can display the encoded information as visible alphanumeric characters, comprising the steps of:

comprising are steps or.

converting an n-digit information into a binary format; separating the binary format into x bit binary words, where x is the same as a maximum number of bits data required by every data character in a pre-determined data character map;

converting the x bit binary words into a sequence of characters using the data character map;

inserting special marker characters into the sequence that demarcate the sequence into sets of characters separated by one or more special marker characters;

inserting one or more special marker characters at the beginning and end of the sequence; and

inserting line feed command characters into the sequence prior to transmission.

2. The method of claim 1, wherein,

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x is four or five.

- 3. The method of claim 1, wherein:
- 25 the data character map excludes one or more alphanumeric characters because of the potential for confusion at a visual level with another character.
  - 4. The method of claim 1, wherein:
- 30 the special marker character is the symbol =.
  - 5. The method of claim 1, wherein:

the line feed command characters divide the sequence into portions that are visually displayable when received by a user's device, as two or more lines of equal length.

6. The method of claim 5, wherein:

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each line initiates and terminates with one or more special marker characters.

- 7. The method of claim 5, wherein:
- each line is subdivided by one or more special marker characters.
  - 8. A scanner for reading a visible code and capturing data from a captured image, comprising:
- an image capture device;
  - an OCR engine that has an image from the image capture device as an input and has as an output, a guess of characters and a location for each character from a geometric display of characters;
- software for recognising a rectangular target area from the presence of special marker characters in the output;
  - a module for subdividing the target area into sets of a pre-determined size and location to create an expected character location values;
  - software for combining the guess of a characters and character location from the OCR engine with the expected character location values to arrive at best guess;
- software for converting the best guess into a binary; and one or more modules for applying data correction or recovery techniques to the binary for the purpose of arriving at the data.
  - 9. The scanner of claim, 8 further comprising:

a diffuse lighting source that minimises highlights in the captured image.

10. The scanner of claim, 8 further comprising:

software for de-skewing the captured image.

- 11. The scanner of claim, 8 further comprising:
- 5 a printer for providing a printed version of the data.
  - 12. The scanner of claim, 8 further comprising:

an auxiliary display on which the data can be displayed.

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13. The scanner of claim, 12 wherein:

the auxiliary display can be physically separated from but functionally connected to the scanner.

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- 14. A method for decoding visible characters into original information data, comprising the steps of:
- capturing an image of a user's display;
- using an OCR engine on the image, the engine having as an output, a guess of characters and a location for each character; recognising a target area from the presence of special marker characters in the output; deriving a character string from characters within the target area;
  - converting the character string into a binary; and
- applying data correction or recovery techniques to the best guess for the purpose of arriving at the data.
  - 15. The method of claim 14, further comprising the steps of:
- subdividing the target area into sets of a pre-determined size and location to create pre-determined character location values; combining the guess of a characters and character location from the OCR engine with the pre-determined character location values to arrive at best guess of a character string.

16. The method of claim 14, wherein:

the character string is an alphanumeric character string.

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17. The method of claim 14, wherein:

deriving the character string further comprises comparing the guess of a characters and character location from the OCR engine with a map of expected character location values to arrive at best guess.

18. The method of claim 14, further comprising the step of:

mapping the decoded original information data to produce a data having a size that is larger than the decoded original information data.

19. The method of claim 14, further comprising the step of:

not decoding characters that are part of a transmission but that are outside of the target area.

20. The method of claim 14, wherein:

the target area is pre-defined as rectangular, being comprised of two or more equal lines of characters and being bounded by special marker characters.